July 2007



DEPARTMENT OF EDUCATION

2006-2007 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. The *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind* Act.

The 2006-2007 MEA Summary Reports contain the results of student achievement in reading and mathematics at all grades and science and technology at grades 4 and 8, based on achievement standards set last year and disaggregated by student and school characteristics. The reports also contain baseline status in writing at grades 5 and 8, reported according to new standards set this year through a process approved by advisory committees and informed by Maine teachers. This report, together with MEA individual student and subject specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The writing reports provide information on a student's ability to respond to a prompt measuring narrative writing at grade 5 and persuasive/argumentative writing at grade 8. More information about the design of the MEA is available at www.maine.gov/education/mea/index.htm.

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Lusan A. Klendron

Sincerely

Susan A. Gendron

Commissioner of Education



School Report Grade 4

Test Date: March 2007 (Reports Revised October 2007)

ID: 12651796 District: MSAD 74

School: Embden Elementary School

Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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SUMMARY OF SCORES

Date: March 2007

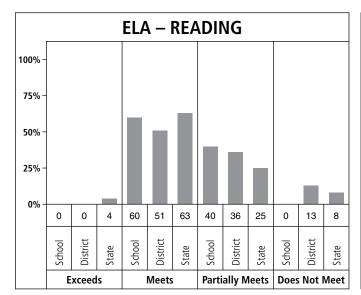
Grade:

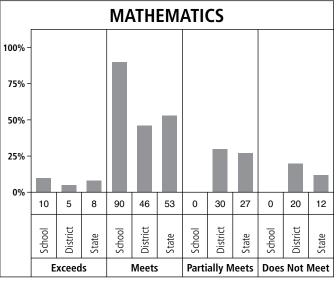
District: MSAD 74

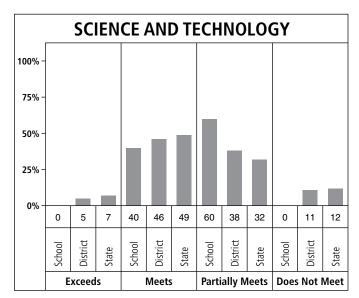
School: Embden Elementary School

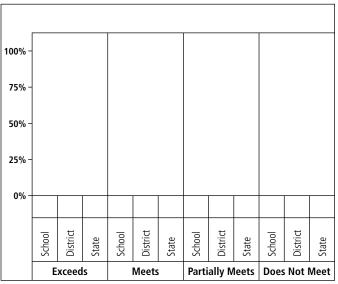
Summary of School, District, and State Scores

Year	Avera	age Scaled S	Score
ieai	School	District	State
ELA – Reading 2005–2006 2006–2007 Cum. Avg.*	446 445 446	445 442 443	444 445 444
Mathematics 2005–2006 2006–2007 Cum. Avg.*	450 452 451	447 442 445	444 445 444
Science & Technology 2005–2006 2006–2007 Cum.Avg.*	447 440 444	445 442 444	444 444 444









^{*}Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.



SUMMARY OF STUDENT PARTICIPATION

Date: March 2007

Grade:

District: MSAD 74

School: Embden Elementary School

			Er	rol	lme	nt¹								C	ON.	ΤE	NT	AR	EΑ	PA	RT	ICI	PA	TIO	N ²					
CATE	GORY OF	C	during	g test	ing v	vindo	w			ELA-F	Readin	g				Mathe	matics	3			Scien	ce and	d Tech	nology						
PARTI	ICIPATION	Sc	hool	Dis	trict	Sta	ate	Sc	hool	Dis	trict	St	ate	Sch	iool	Dis	trict	St	ate	Scl	hool	Dis	strict	St	ate	Sc	hool	District	State	
		n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n %	n %	,
Total numl	ber of students	10	100	62	100	14184	100	10	100	62	100	14078	99	10	100	62	100	14078	99	10	100	62	100	14057	99					
Ethnicity	African American	0	0	0	0	391	3	0	0	0	0	385	99	0	0	0	0	387	99	0	0	0	0	377	97					
	American Indian/Native Alaskan	0	0	2	3	117	1	0	0	2	100	112	97	0	0	2	100	112	97	0	0	2	100	112	97					
	Asian/Pacific Islander	0	0	0	0	204	1	0	0	0	0	204	100	0	0	0	0	204	100	0	0	0	0	204	100					
	Hispanic	0	0	1	2	171	1	0	0	1	100	171	100	0	0	1	100	170	99	0	0	1	100	169	99					
	White	10	100	59	95	13295	94	10	100	59	100	13204	99	10	100	59	100	13203	99	10	100	59	100	13193	99					
	Not Reported	0	0	0	0	6	0	0	0	0	0	2	33	0	0	0	0	2	33	0	0	0	0	2	33					
Identified	disability	3	30	22	35	2538	18	3	100	22	100	2508	99	3	100	22	100	2509	99	3	100	22	100	2502	99					
Current LE	EP	0	0	0	0	302	2	0	0	0	0	298	99	0	0	0	0	300	99	0	0	0	0	289	96					
Economic	ally disadvantaged	7	70	35	56	5522	39	7	100	35	100	5468	99	7	100	35	100	5467	99	7	100	35	100	5450	99					
Migrant		0	0	0	0	4	0	0	0	0	0	4	100	0	0	0	0	4	100	0	0	0	0	4	100					

MODE OF			ELA-F	Readin	g				Mathe	matics	3			Scien	ce and	d Tech	nology					
	Sc	hool	Dis	trict	St	ate	Sch	nool	Dis	trict	Sta	ate	Sch	nool	Dis	strict	Sta	ate	Sch	nool	District	State
PARTICIPATION ³	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n %	n %
Participation without accommodations	6	60	40	65	10869	77	7	70	41	66	10883	77	7	70	41	66	10890	77				
Identified disability (PET/IEP)	1	17	6	15	435	4	1	14	6	15	445	4	1	14	6	15	453	4				
LEP	0	0	0	0	133	1	0	0	0	0	124	1	0	0	0	0	126	1				
504 plan	0	0	0	0	122	1	0	0	0	0	122	1	0	0	0	0	123	1				
Participation with accommodations	4	40	21	34	3019	21	3	30	20	32	3029	21	3	30	20	32	3014	21				
Identified disability (PET/IEP)	2	50	15	71	1897	63	2	67	15	75	1903	63	2	67	15	75	1900	63				
LEP	0	0	0	0	151	5	0	0	0	0	172	6	0	0	0	0	160	5				
504 plan	0	0	0	0	62	2	0	0	0	0	62	2	0	0	0	0	61	2				
Other	2	50	6	29	941	31	1	33	5	25	924	31	1	33	5	25	925	31				
Participation through alternate assessment (PAAP)	0	0	1	2	180	1	0	0	1	2	166	1	0	0	1	2	153	1				
Identified disability (PET/IEP)	0	0	1	100	175	97	0	0	1	100	161	97	0	0	1	100	149	97				
LEP	0	0	0	0	4	2	0	0	0	0	4	2	0	0	0	0	3	2				
504 plan	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1				
Approved non-participation in reading – 1st year LEP	0	0	0	0	10	0																
Approved non-participation – special consideration	0	0	0	0	17	0	0	0	0	0	19	0	0	0	0	0	19	0				
Non-participation – other	0	0	0	0	89	1	0	0	0	0	87	1	0	0	0	0	108	1				

¹ Percents are the percentage of students enrolled in each participation category.

² Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

³ Percents are the percentage of students in each content area by mode.



ELA-READING RESULTS

Date: March 2007

Grade:

District: MSAD 74

School: Embden Elementary School

ACHIEVEMENT LEVEL DEFINITIONS		Sch	nool	Dis	trict	Sta	ite
The quality of a student's work at each achievement level reflects progress in attaining Maine Level Expectations in English language arts – reading.	's Grade	N	%	N	%	N	%
Exceeds the Standards – The student's work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 461–480)	2005-2006	1	10	2	3	601	4
	2006-2007	0	0	0	0	507	4
	Cum. Avg.	1	8	1	2	554	4
Meets the Standards – The student's work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 441–460)	2005-2006	5	50	39	65	7910	57
	2006-2007	6	60	31	51	8749	63
	Cum. Avg.	6	50	35	57	8330	60
Partially Meets the Standards – The student's work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student's ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 431–440)	2005-2006	3	30	15	25	3970	29
	2006-2007	4	40	22	36	3467	25
	Cum. Avg.	4	33	19	31	3719	27
Does Not Meet the Standards – The student's work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student's responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 400–430)	2005-2006	1	10	4	7	1421	10
	2006-2007	0	0	8	13	1165	8
	Cum. Avg.	1	8	6	10	1293	9

		nber	A	verage Poir	nts Attaine	d (Number	and Percer	nt)
Learning Results Content Standard Cluster		oints sible	Sch	ool	Dist	trict	Sta	ate
	N	%	N	%	N	%	N	%
Total Reading Cluster	48	100	30.9	64.4	28.0	58.3	31.0	64.6
Literary Text	24	50	16.8	70.0	15.0	62.5	16.4	68.3
Informational Text	24	50	14.1	58.8	13.0	54.2	14.5	60.4

The Maine Learning Results reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students' reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short authentic texts, selected from developmentally appropriate published works. Items on the MEA measure Grade Level Expectations, based on Maine's Learning Results, which can be found at http://www.maine.gov/education/lsalt/gles.htm.



ELA-READING RESULTS

(CONTINUED)

Date: March 2007

Grade:

District: MSAD 74

School: Embden Elementary School

						nool		,					Dis	trict					Sta	ate		
REPORTING CATEGORIES	Tested		E		M		P		D	Mean Scaled	Tested	E	М	Р	D	Mean Scaled	Tested	E	М	P	D	Mean Scaled
	N	N	%	N	%	N	%	N	%	Score	N	%	%	%	%	Score	N	%	%	%	%	Score
All Students	10	0	0	6	60	4	40	0	0	445	61	0	51	36	13	442	13888	4	63	25	8	445
Ethnicity African American American Indian/Native Alaskan Asian/Pacific Islander Hispanic White Not Reported	0 0 0 0 10	0	0	6	60	4	40	0	0	445	0 2 0 1 58 0	0	52	34	14	442	372 110 200 166 13038 2	0 1 4 0 4	44 49 66 51 64	31 34 22 37 25	25 16 9 12 8	437 441 446 441 445
Identified disability Yes No	3 7	0	0	4	57	3	43	0	0	445	21 40	0	38 58	38 35	24 8	439 443	2332 11556	1 4	34 69	41 22	25 5	438 447
Limited English proficient students Current LEP in first year Current LEP beyond first year	0										0						5 279	0	20 31	20 36	60 33	421 435
Economically disadvantaged Yes No	7 3	0	0	4	57	3	43	0	0	446	35 26	0	46 58	37 35	17 8	441 443	5368 8520	1 5	52 70	33 20	14 5	442 447
Migrant Yes No	0 10	0	0	6	60	4	40	0	0	445	0 61	0	51	36	13	442	4 13884	4	63	25	8	445
Gender Female Male Not Reported	4 6 0	0	0	4	67	2	33	0	0	448	25 36 0	0 0	52 50	48 28	0 22	443 441	6719 7167 2	5 3	65 61	23 27	8 9	446 444
Title 1A targeted program Yes No	7 3	0	0	3	43	4	57	0	0	444	15 46	0	20 61	60 28	20 11	438 443	1864 12024	0 4	38 67	44 22	18 7	439 446
Gifted/talented program Yes No	0 10	0	0	6	60	4	40	0	0	445	0 61	0	51	36	13	442	402 13486	19 3	80 62	0 26	0 9	457 445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested.

= Number



ELA-READING RESULTS

(QUESTIONNAIRE ITEMS)

Date: March 2007

Grade:

District: MSAD 74

School: Embden Elementary School

er .	140.		• • • • • • • • • • • • • • • • • • • •				,															
					Sch	ool							Dist	rict					Sta	ite		
QUESTIONNAIRE ITEMS	Students in Each Category		E	ı	М		P	ı	ס	Mean Scaled Score	Students in Each Category	E	М	Р	D	Mean Scaled Score	Students in Each Category	E	М	Р	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%	Jeore	%	%	%	%	%	Jeore	%	%	%	%	%	Jeore
How much homework do you do on school nights?																						
A. none	0	_									3	0	0	0	100	428	5	1	45	33	21	440
B. less than one hour C. one to two hours	90 10	0	0	6	67 0	3	33 100	0	0	447 434	62 28	0	53 59	39 35	8 6	443 443	76 18	4 4	64 65	24 24	7 7	446 446
D. more than two hours	0	0	0	"	"	'	100	"	U	434	7	0	25	25	50	430	2	3	43	32	23	440
How well do the questions that you have just been given on this																						
MEA test match what you have learned in school about reading?		١.		١.						l							l	_			_	
A. The questions on the test match what I have learned in reading class.	50 20	0	0	4	80 50	1	20 50	0	0	447 443	36 41	0	55 60	27 40	18 0	442 443	31 51	5	67 67	20 24	7 6	447 446
B. They match some of what I have learned. C. They match just a little of what I have learned.	20	0	0		50		50	0	0	443	16	0	30	30	40	443	13	1	49	34	15	440
D. There is no match.	10	0	ő	0	0	1	100	0	0	436	7	0	25	75	0	438	5	1	37	39	22	439
Which of the following best describes how you rate yourself as a																						
student in reading?																						
A. very good	50	0	0	3	60	2	40	0	0	445	38	0	65	26	9	446	36	6	70	17	6	448
B. good	30	0	0	1	33	2	67	0	0	440	36	0	45	45	9	440	49	3	63	27	7	445
C. fair	20 0	0	0	2	100	0	0	0	0	455	21 5	0	38 33	38 33	23 33	439 434	13 2	1 0	49 32	36 38	14 30	441 436
D. poor	"										5	"	33	- 33	- 33	434		"	32	30	30	430
How hard was the reading part of this test? A. harder than my regular schoolwork	10	0	0	1	100	0	0	0	0	452	10	0	50	33	17	440	16	1	47	35	17	441
B. about the same as my regular schoolwork	60	0	0	4	67	2	33	0	0	446	66	0	58	35	8	443	61	4	67	23	6	446
C. easier than my regular schoolwork	30	0	ő	1	33	2	67	0	0	441	25	0	33	40	27	437	23	3	64	24	8	445
How hard were the reading passages on this test?																						
A. Most of the passages were more difficult than what I usually read.	20	0	0	0	0	2	100	0	0	437	19	0	27	55	18	439	14	0	35	42	23	438
B. Most of the passages were about the same as what I usually read.	60	0	0	4	67	2	33	0	0	446	58	0	56	38	6	443	51	3	66	25	6	445
C. Most of the passages were easier than what I usually read.	20	0	0	2	100	0	0	0	0	451	24	0	57	21	21	442	36	6	71	17	6	448
How much time do you spend reading at home each day?				_		_						_						_				
A. more than one hour	40 50	0	0	2	50 60	2 2	50 40	0	0	444 446	23 33	0	43 65	43 30	14	440 445	18 55	6	66 67	21 22	7	447 446
B. 20 minutes to an hour C. less than 20 minutes	10	0	0	3	100	0	0	0	0	446	25	0	60	33	5 7	445	14	4	57	22	6 13	446
D. I rarely read at home.	0	"	"	'	100	"	"	"		140	20	0	25	42	33	437	13	1	49	36	13	441
How many pages do you read in school and to complete homework														_	-		"					
assignments?																						
A. five or fewer pages	50	0	0	3	60	2	40	0	0	444	40	0	58	29	13	443	23	3	54	31	12	443
B. six to ten pages	30	0	0	2	67	1	33	0	0	449	30	0	50	39	11	443	26	3	63	26	8	445
C. eleven or more pages	20	0	0	1	50	1	50	0	0	443	30	0	44	39	17	439	51	4	68	21	6	447
Optional school/district question																404						
A. B.	0										100 0	0	0	0	100	424						
в. С.	0										0											
D.	0										0									1		
							!													-		
																				1		
							-															
							!															
									•											1		

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

N = Number Page 6



MATHEMATICS RESULTS

March 2007 Date: 4

Grade:

District: MSAD 74

Embden Elementary School School:

STUDENTS AT EACH ACHIEVEMENT LEVEL

ACHIEVEMENT LEVEL DEFINITIONS		Scl	hool	Dis	trict	Sta	ate
The quality of a student's work at each achievement level reflects progress in attaining Maine Level Expectations in mathematics.	's Grade	N	%	N	%	N	%
Exceeds the Standards – The student's work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student's responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 461–480)	2005-2006	1	10	6	10	1294	9
	2006-2007	1	10	3	5	1054	8
	Cum. Avg.	1	10	5	8	1174	8
Meets the Standards – The student's work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student's responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student's work may contain minor errors. (scaled score 441–460)	2005-2006	7	70	34	56	7000	50
	2006-2007	9	90	28	46	7394	53
	Cum. Avg.	8	80	31	50	7197	52
Partially Meets the Standards – The student's work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student's responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 429–440)	2005-2006	2	20	16	26	3784	27
	2006-2007	0	0	18	30	3729	27
	Cum. Avg.	1	10	17	27	3757	27
Does Not Meet the Standards – The student's work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student's responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 400–428)	2005-2006	0	0	5	8	1894	14
	2006-2007	0	0	12	20	1735	12
	Cum. Avg.	0	0	9	15	1815	13

		nber	Avera	ge Point	s Attaine	d (Numbe	r and Pe	rcent)
Learning Results Content Standard Clusters		oints sible	Sch	ool	Dist	trict	Sta	ate
	N	%	N	%	N	%	N	%
Cluster 1: Numbers and Operations	15	31	12.7	84.7	9.1	60.7	10.1	67.3
Cluster 2: Shape and Size	14	29	9.0	64.3	8.0	57.1	8.6	61.4
Cluster 3: Mathematical Decision Making	5	10	4.5	90.0	3.7	74.0	3.6	72.0
Cluster 4: Patterns	14	29	10.0	71.4	8.5	60.7	8.9	63.6

Cluster 1: Numbers and Operations

- A. Numbers and Number Sense
- B. Computation
- I. Discrete Mathematics (grades 3 and 4 only)

Cluster 2: Shape and Size

- E. Geometry
- F. Measurement

Cluster 3: Mathematical Decision Making

- C. Data Analysis and Statistics
- D. Probability

Cluster 4: Patterns

- G. Patterns, Relations, and Functions
- H. Algebra Concepts
- K. Mathematical Communication

Each content standard in the clusters above is defined in Maine's Learning Results, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at http://www.maine.gov/education/lsalt/gles.htm.



MATHEMATICS RESULTS

(CONTINUED)

Date: March 2007

Grade:

District: MSAD 74

School: Embden Elementary School

-						nool							Dis	trict	<u> </u>				Sta	ate		
REPORTING CATEGORIES	Tested		E		M		P		D	Mean Scaled	Tested	E	М	Р	D	Mean Scaled	Tested	E	М	P	D	Mean Scaled
	N	N	%	N	%	N	%	N	%	Score	N	%	%	%	%	Score	N	%	%	%	%	Score
All Students	10	1	10	9	90	0	0	0	0	452	61	5	46	30	20	442	13912	8	53	27	12	445
Ethnicity African American American Indian/Native Alaskan Asian/Pacific Islander Hispanic White Not Reported	0 0 0 0 10	1	10	9	90	0	0	0	0	452	0 2 0 1 58 0	5	45	31	19	442	381 110 202 166 13051 2	2 1 9 2 8	33 58 57 44 54	31 30 22 37 27	34 11 11 17 12	435 443 447 441 445
Identified disability Yes No	3 7	0	0	7	100	0	0	0	0	450	21 40	5 5	33 53	38 25	24 18	439 443	2348 11564	2 9	34 57	34 25	30 9	437 446
Limited English proficient students Current LEP in first year Current LEP beyond first year	0										0						13 283	0 2	31 34	8 30	62 34	426 435
Economically disadvantaged Yes No	7 3	1	14	6	86	0	0	0	0	454	35 26	6 4	46 46	26 35	23 15	442 442	5379 8533	3 11	44 59	34 23	19 8	440 448
Migrant Yes No	0 10	1	10	9	90	0	0	0	0	452	0 61	5	46	30	20	442	4 13908	8	53	27	12	445
Gender Female Male Not Reported	4 6 0	1	17	5	83	0	0	0	0	454	25 36 0	4 6	48 44	24 33	24 17	441 442	6727 7183 2	7 8	53 54	27 26	13 12	444 445
Title 1A targeted program Yes No	7 3	1	14	6	86	0	0	0	0	451	15 46	7 4	47 46	13 35	33 15	439 442	1872 12040	1 9	32 56	42 24	25 10	436 446
Gifted/talented program Yes No	0 10	1	10	9	90	0	0	0	0	452	0 61	5	46	30	20	442	402 13510	42 7	55 53	2 28	0 13	461 444

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested.

I = Number



MATHEMATICS RESULTS

(QUESTIONNAIRE ITEMS)

Date: March 2007

Grade: 4

District: MSAD 74

School: Embden Elementary School

4	140201101111111111111111111111111111111																					
	School											State										
QUESTIONNAIRE ITEMS			E		М		P		D		Students in Each Category	E	М	Р	D	Mean Scaled Score	Students in Each Category	E	М	Р	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%	Score	%	%	%	%	%	Jeore	%	%	%	%	%	Jeore
How much homework do you do on school nights? A. none B. less than one hour C. one to two hours D. more than two hours	0 90 10 0	1 0	11 0	8	89 100	0	0 0	0	0 0	453 446	3 62 28 7	0 5 6 0	0 53 47 0	50 24 29 75	50 18 18 25	424 443 442 431	5 76 18 2	4 8 7 4	40 54 54 36	28 26 28 35	28 11 11 26	439 445 445 438
How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics? A. The questions on the test match what I have learned in mathematics class.	60	0	0	6	100	0	0	0	0	452	43	8	46	35	12	444	40	11	58	22	9	448
B. They match some of what I have learned. C. They match just a little of what I have learned. D. There is no match.	20 20 0	0	0 50	2	100 50	0	0	0	0	446 458	33 11 13	0 14 0	65 29 13	15 14 63	20 43 25	442 441 433	46 10 4	6 4 4	54 40 28	29 34 35	11 23 33	444 439 436
Which of the following best describes how you rate yourself as a student in mathematics? A. very good B. good C. fair D. poor	50 40 10 0	0 1 0	0 25 0	5 3 1	100 75 100	0 0 0	0 0 0	0 0 0	0 0 0	452 453 448	41 39 18 2	8 4 0 0	56 42 36 0	24 33 27 100	12 21 36 0	445 441 436 430	37 46 14 2	14 5 2 1	59 54 42 27	18 29 38 43	9 12 19 29	449 444 440 435
How hard was the mathematics part of this test? A. harder than my regular schoolwork B. about the same as my regular schoolwork C. easier than my regular schoolwork	0 44 56	1 0	25 0	3 5	75 100	0	0 0	0 0	0 0	454 452	14 58 29	0 9 0	25 47 53	25 26 35	50 18 12	432 444 442	12 62 26	4 7 11	37 56 56	34 27 23	25 10 10	438 445 447
How often do you use hands-on materials in mathematics class? A. almost every day B. two or three days a week C. two or three times each month D. never	20 0 70 10	0 1 0	0 14 0	2 6 1	100 86 100	0 0	0 0 0	0 0 0	0 0 0	449 452 456	18 23 42 17	0 7 8 0	36 21 72 30	27 43 20 30	36 29 0 40	435 438 449 436	21 37 34 8	6 8 9 6	47 55 57 46	29 26 26 30	18 11 9 18	442 445 446 442
How often do you use calculators in mathematics class? A. almost every day B. two or three days a week C. two or three times each month D. never	10 20 70 0	0 0 1	0 0 14	1 2 6	100 100 86	0 0 0	0 0 0	0 0 0	0 0 0	452 450 453	7 16 46 31	0 10 7 0	25 50 64 21	25 20 21 47	50 20 7 32	435 443 447 435	4 19 56 21	2 6 9 6	33 47 58 50	34 31 24 28	31 15 8 16	436 443 447 443
On average, how many minutes a day do you spend working on mathematics in class? A. less than 30 minutes B. 30–45 minutes C. 45–60 minutes D. more than 60 minutes	40 30 20 10	0 1 0 0	0 33 0 0	4 2 2 1	100 67 100 100	0 0 0 0	0 0 0	0 0 0 0	0 0 0	453 454 452 444	21 41 30 8	0 4 11 0	38 56 39 40	23 24 39 40	38 16 11 20	437 444 443 436	8 27 40 25	3 5 9 10	39 51 57 56	35 30 25 24	24 15 10 10	438 443 446 447
Optional school/district question A. B. C. D.	0 0 0 0										100 0 0 0	0	0	0	100	428						

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

N = Number Page 9



SCIENCE AND TECHNOLOGY RESULTS

Date: March 2007

Grade:

District: MSAD 74

School: Embden Elementary School

STUDENTS AT EACH ACHIEVEMENT LEVEL

		Sch	nool	Dist	trict	Sta	ite						
ACHIEVEMENT LEVEL DEFINITIONS													
The quality of a student's work at each achievement level reflects progress in attaining Maine Expectations in science and technology.	's Grade Span	N	%	N	%	N	%						
Exceeds the Standards – The student's work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student's responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 461–480)	2005-2006	1	10	4	7	751	5						
	2006-2007	0	0	3	5	963	7						
	Cum. Avg.	1	9	4	6	857	6						
Meets the Standards – The student's work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student's responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 441–460)	2005-2006	5	50	32	52	7251	52						
	2006-2007	4	40	28	46	6824	49						
	Cum. Avg.	5	45	30	48	7038	50						
Partially Meets the Standards – The student's work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student's responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 429–440)	2005-2006	4	40	22	36	4514	32						
	2006-2007	6	60	23	38	4382	32						
	Cum. Avg.	5	45	23	37	4448	32						
Does Not Meet the Standards – The student's work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student's responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 400–428)	2005-2006	0	0	3	5	1458	10						
	2006-2007	0	0	7	11	1735	12						
	Cum. Avg.	0	0	5	8	1597	11						

		nber	Average Points Attained (Number and Percent)											
Learning Results Content Standard Clusters		oints sible	Sch	ool	Dist	trict	State							
	N	%	N	%	N	%	N	%						
Cluster 1: Life Sciences	12	25	6.0	50.0	7.0	58.3	7.6	63.3						
Cluster 2: Physical Sciences	12	25	9.1	75.8	8.9	74.2	8.8	73.3						
Cluster 3: Earth and Space Sciences	12	25	6.2	51.7	6.2	51.7	6.8	56.7						
Cluster 4: Nature and Implications of Science	12	25	7.9	65.8	7.8	65.0	7.8	65.0						

Cluster 1: Life Sciences

A. Classifying Life Forms

B. Ecology

C. Cells

Cluster 2: Physical Sciences

E. Structure of Matter

H. Energy

I. Motion

Cluster 3: Earth and Space Sciences

D. Continuity and Change

F. The Earth

G. The Universe

Cluster 4: Nature and Implications of Science

J. Inquiry and Problem Solving

K. Scientific Reasoning

L. Communication

M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine's *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at http://www.maine.gov/education/lsalt/gles.htm.



SCIENCE AND TECHNOLOGY RESULTS

(CONTINUED)

Date: March 2007

Grade:

District: MSAD 74

School: Embden Elementary School

		School											District State										
REPORTING CATEGORIES	Tested		E		M		P	I)	Mean Scaled Score	Tested	E	М	P	D	Mean Scaled Score	Tested	E	М	Р	D	Mean Scaled Score	
	N	N	%	N	%	N	%	N	%	Score	N	%	%	%	%	Score	N	%	%	%	%	Score	
All Students	10	0	0	4	40	6	60	0	0	440	61	5	46	38	11	442	13904	7	49	32	12	444	
Ethnicity African American American Indian/Native Alaskan Asian/Pacific Islander Hispanic White Not Reported	0 0 0 0 10	0	0	4	40	6	60	0	0	440	0 2 0 1 58	5	45	38	12	442	371 110 202 166 13053 2	2 2 10 4 7	29 35 49 41 50	39 41 30 40 31	30 22 12 16 12	435 440 445 441 444	
Identified disability Yes No	3 7	0	0	2	29	5	71	0	0	439	21 40	0	57 40	33 40	10 13	443 441	2353 11551	3 8	33 52	39 30	25 10	438 445	
Limited English proficient students Current LEP in first year Current LEP beyond first year	0 0										0						5 281	0 2	20 24	40 40	40 34	432 434	
Economically disadvantaged Yes No	7 3	0	0	3	43	4	57	0	0	440	35 26	0 12	43 50	40 35	17 4	439 446	5370 8534	3 9	41 54	37 28	19 9	440 446	
Migrant Yes No	0 10	0	0	4	40	6	60	0	0	440	0 61	5	46	38	11	442	4 13900	7	49	32	12	444	
Gender Female Male Not Reported	4 6 0	0	0	3	50	3	50	0	0	441	25 36 0	8 3	44 47	44 33	4 17	443 441	6720 7182 2	7 7	48 50	32 31	13 12	443 444	
Title 1A targeted program Yes No	7 3	0	0	2	29	5	71	0	0	439	15 46	0 7	27 52	47 35	27 7	434 444	1865 12039	1 8	31 52	42 30	26 10	437 445	
Gifted/talented program Yes No	0 10	0	0	4	40	6	60	0	0	440	0 61	5	46	38	11	442	401 13503	31 6	64 49	4 32	1 13	458 444	

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NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested.

I = Number



SCIENCE AND TECHNOLOGY RESULTS

(QUESTIONNAIRE ITEMS)

Date: March 2007

Grade:

District: MSAD 74

School: Embden Elementary School

	School												State									
QUESTIONNAIRE ITEMS	Students in Each Category	l l	E	ı	VI		P		D	Mean Scaled Score	Students in Each Category	E	М	Р	D	Mean Scaled Score	Students in Each Category	E	М	Р	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%	Jeore	%	%	%	%	%	Jeore	%	%	%	%	%	Jeore
How much homework do you do on school nights? A. none B. less than one hour C. one to two hours D. more than two hours	0 90 10 0	0	0	4 0	44 0	5 1	56 100	0	0 0	440 440	3 62 28 7	0 8 0 0	50 42 59 25	50 42 24 50	0 8 18 25	441 442 442 437	5 76 18 2	4 7 8 3	37 50 50 39	35 32 30 32	23 11 12 26	440 444 444 438
How well do the questions that you have just been given on this MEA test match what you have learned in school about science? A. The questions on the test match what I have learned in science class. B. They match some of what I have learned. C. They match just a little of what I have learned. D. There is no match.	40 40 20 0	0 0 0	0 0 0	1 2 1	25 50 50	3 2 1	75 50 50	0 0 0	0 0 0	438 443 441	25 48 21 7	20 0 0 0	33 52 54 25	27 41 31 75	20 7 15 0	444 441 441 443	21 49 24 7	10 7 5 4	50 51 48 38	28 32 33 37	12 11 14 21	445 445 443 439
Which of the following best describes how you rate yourself as a student in science?																						
A. very good B. good C. fair D. poor	20 50 30 0	0 0 0	0 0 0	1 1 2	50 20 67	1 4 1	50 80 33	0 0 0	0 0 0	443 438 443	23 52 20 5	21 0 0 0	50 47 42 33	21 47 33 33	7 6 25 33	450 441 436 434	23 54 20 3	9 8 4 2	51 51 46 31	27 31 37 38	13 11 14 29	445 445 442 436
How difficult was the science part of this test? A. harder than my regular schoolwork B. about the same as my regular schoolwork C. easier than my regular schoolwork	0 80 20	0	0 0	4 0	50 0	4 2	50 100	0 0	0	442 434	12 68 20	0 7 0	57 49 33	29 34 50	14 10 17	443 443 438	24 61 15	6 8 7	48 50 48	32 31 31	14 11 14	443 445 443
How often do you have science classes? A. every day B. a few times a week C. once a week D. a few times a month	0 10 0 90	0	0	0 4	0 44	1 5	100 56	0	0	436 441	38 42 3 17	4 4 0 0	52 44 50 40	35 36 0 60	9 16 50 0	444 440 432 441	26 53 10 11	7 8 4 6	48 51 45 48	32 31 32 33	13 11 18 13	444 445 442 443
Which statement best describes how you learn science? A. I mostly read a textbook and answer questions, and/or take notes and	50	0	0	2	40	3	60	0	0	439	34	5	50	30	15	442	23	5	45	35	15	442
do assignments. I use science kits for demonstrations and experiments B. I work in groups to design and conduct experiments. C. I do a combination of A and B, mostly A. D. I do a combination of A and B, mostly B.		0 0 0	0 0 0	0 0 2	0 0 100	1 2 0	100 100 0	0 0 0	0 0	440 439 445	24 27 15	0 6 11	36 38 56	64 38 22	0 19 11	442 442 442 442	26 28 24	4 10 9	44 53 54	37 28 27	16 10 10	442 442 446 446
Optional school/district question A. B. C. D.	0 0 0										100 0 0 0	0	0	0	100	420						

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N = Number Page 12